

## Graduate Certificate in Aviation (Asia-focus)

### Airport Management

This course is a “Core course” that is part of the AviAsian Certificate.

This 3-days, 20-hours course in Airport Management is specifically created for Airport, airline, and air navigation service provider’s professionals to further operate and manage their aviation organization and to apply fundamental planning concepts of airports industry, with a particular emphasis on the Asia-Pacific Region.

Upon completion of this course, students should understand the nature of airport components, the relationship between airport’s stakeholders, how to calculate the capacity of the different components of the airport system, the complex methodology for managing aircraft movements and passengers, airport facility management, and Real cases and exercises of airport planning, design and operations will be applied within the context of Asia and international regulatory bodies.

### Learning Objectives

Upon course completion, trainees will be able to:

- Describe the airport systems and how the components of both airside and landside integrated.
- Identify the various facilities on an airport’s airfield and the specifications and types of airport runways.
- Understand an airport layout and runway orientation planning using wind rose analysis.
- Identify an airport’s reference code.
- Describe the various navigational aids that exist on airfields (e.g. airfield lighting, signage, and markings).
- Describe the infrastructure existing to increase the security of the airfield.
- Understand an airport organization chart.
- Understand how air traffic control affects airport management.
- Identify the areas of concern with respect to safety inspection programs.
- Understand the aircraft rescue and fire fighting requirements for a given airport.
- Discuss approaches to mitigating bird and wildlife hazards.
- Understand the development of airport terminals from the early days of commercial aviation to present-day terminal design concepts.
- Define the various security sensitive areas within and around airports.
- Define the various types of airport planning studies and the different elements of the airport master plan.
- Understand the concepts of national-, regional-, and state-level system planning.
- Discuss some of the current and future issues concerning airports.

### Course Contents

- Aviation Industry Overview.

Professional Education and Training

Embry-Riddle Aeronautical University – Asia

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- Airline IATA & ICAO Codes.
- A brief word on Aviation organizations
- Aviation system components,
- Types and Airport System components,
- ICAO Annex 14 Vol. I (Aerodrome Design and operation).
- Runway, Taxiway and Aircraft Stand Systems,
- Safety Management System (SMS,)
- Environment Management System (EMS),
- Capacity and Level of Service,
- Passenger Terminal Design and Passenger
- Quality Management System (QMS),
- Behavior and Maximum Queuing Time
- Airline Alliances and their effects
- Performance Evaluation and benchmarking

## Who Should Attend

- Professionals in airline, airport, ANSP and CAA

## Training Method

- Face-to-Face instructions in classroom or in Virtual Reality
- Supported by practical case studies
- OJT may be provided if coordinated with airport authority.

## General Information

Duration: 3 days or 20 hours

Venue: Local or Virtual Classroom

Participants: Maximum 25

Prerequisites:

- Familiarity with IT word-processing and presentation software
- basic knowledge of aviation industry